


<b>INFORMATION DISCLOSURE CITATION</b> <b>IN AN APPLICATION</b> <b>(PTO-1449)</b>				<b>ATTY. DOCKET NO.</b> 52637-0063		<b>SERIAL NO.</b> 10/615,208	
				<b>APPLICANT:</b> Efstratios Skafidas			
				<b>FILING DATE:</b> July 7, 2003		<b>GROUP:</b> 2618	
<b>U.S. PATENT DOCUMENTS</b>							
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code <sup>2</sup> (If known)				
MD		US-2002/0107024	A1	Dev Roy, Debasish	08-2002		
		US-2003/0054829	A1	Moisio, Martti	03-2003		
		US-2003/0064745	A1	Benveniste, Mathilde	04-2003		
		US-2003/0210665	A1	Salmenkaita et al.	11-2003		
		US-2004/0095907	A1	Agee et al.	05-2004		
		US-2003/0078049	A1	Klank, Otto	04-2003		
		US-2001/0044308	A1	Klank, Otto	11-2001		

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

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MD		EUROPEAN PATENT OFFICE, "Communication Pursuant to Article 96(2) EPC," Office Action for EP Application No. 03 783 375.3, dated 11-21-2005, 4 pages.	
MD		Current Claims, EP Application No. 03 783 375.3, 7 pages.	

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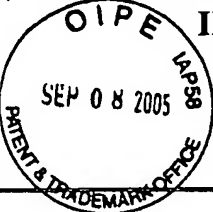
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MD		INTERNATIONAL SEARCHING AUTHORITY, "Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration," PCT/US2004/023901, dated July 7, 2005, 21 pages.	
MD		Current Claims, PCT/US2004/023949, 14 pages.	

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MD		WO	98/24258	A2	Telefonaktiebolaget LM Ericsson	06-04-1998	_____	
↓		EP	1156689	A1	Deutsche Thomson-Brandt GMBH	11-21-2001	_____	
		WO	02/41449	A2	Andrew Corporation	05-23-2002	_____	
		WO	2004/049747	A2	Bandspeed Inc.	06-10-2004	_____	

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MD		INTERNATIONAL SEARCHING AUTHORITY, "Notification of Transmittal of the International Search Report and the Written Opinion of the International Searching Authority, or the Declaration," PCT/US2004/023949, dated June 28, 2005, 22 pages.	
MD		Current Claims, PCT/US2004/023949, 14 pages.	
MD		GOMES, FERNANDO C., "Reactive GRASP with Path Relinking for Channel Assignment in Mobile Phone Networks," XP-001099662, pp. 60-67.	

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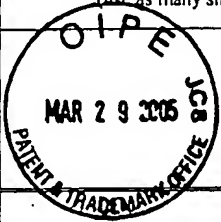
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MD		Current Claims of International Patent Application PCT/US 03/36179 (9 pgs)	
MD		INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY, International Preliminary Examination Report, Patent Application PCT/US 03/36179, dated May 5, 2005, 13 pages.	

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MD		Current Claims of International Patent Application PCT/US 03/36179 (7 pgs)	
MD		INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY, Written Opinion, Patent Application PCT/US 03/36179, dated February 7, 2005, 11 pages.	

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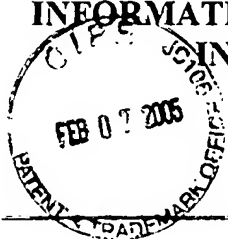
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MD		US-2004-0259558	A1	Skafidas et al.	12-23-2004	

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MD		2004/0259563	A1	Morton, et al.	12/23/2004	

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MD		2002/0149534	A1	Bobier	10/17/2002	_____
▼		6,218,990	B1	Grangeat, et al.	4/17/2001	_____
		6,323,810	B1	Poilasne, et al.	11/27/2001	_____

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MD		MARK J. VAUGHAN, ET AL., "InP-Based 28 GHz Integrated Antennas for Point-to-Multipoint Distribution", High Speed Semiconductor Devices and Circuits, Cornell University, Ithaca, NY., August 7, 1995, pp. 75-84.	
MD		BENENSON, L S., ET AL., "Decoupling of Antennas by Means of Periodic Structures", Soviet Journal of Communications Technology and Electronics, SCRIPTA, vol. 37, no. 8, 1992, pp. 23-33.	
MD		International Search Report from PCT for PCT application no. PCT/US03/36179, dated 14 October 2004 (11 pgs)	
MD		Current Claims in PCT patent application no. PCT/US03/36179 (7 pgs)	

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07/27/2006

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Page 1 of 2

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)	Attorney Docket No.: 52637-0063	Application Number: 10/615,208
		First Named Inventor: Efstratios Skafidas
		Filing Date: July 7, 2003

**OTHER ART – NO PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
MD		International Searching Authority, "Invitation to Pay Additional Fees," May 25, 2004, 5 pages.	
MD		Current Claims in PCT patent application, International Application Number PCT/US03/36179, 7 pages.	
MD		Kou Kobayashi et al., "Spatially Divided Channel Scheme using Sectorized Antennas for CSMA/CA – 'Directional CSMA/CA'," IEEE, vol. 1, September 18, 2000, XP010520636, pp. 227-231.	
MD		Asis Nasipuri et al., "Power Consumption and Throughput in Mobile Ad Hoc Networks using Directional Antennas," IEEE, October 14, 2002, XP010610949, pp. 620-626.	
MD		Bill McFarland et al., "A 2.4 & 5 GHz Dual Band 802.11 WLAN Supporting Data Rates to 108 Mb/s," IEEE, October 20, 2002, XP010616113, GAAS IC Symposium, 24th Annual IEEE Gallium Arsenide Integrated Circuit Symposium, Technical Digest 2002, Monterey, CA, October 20-23, 2002, pp. 11-14.	

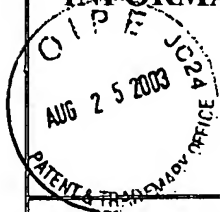
Examiner Signature	/Minh Dao/	Date Considered	07/27/2006
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (PTO-1449)	ATTY. DOCKET NO. 52637-0063	SERIAL NO. 10/615,208
	APPLICANT: Efstratos Skafidas et al.	
	FILING DATE: July 7, 2003	GROUP: NYA



U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (If known)			
MD		5,515,378		Roy, III et al.	05-07-1996	

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD- YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

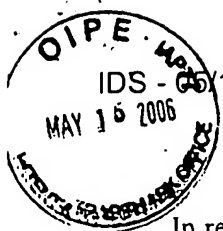
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>

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IDS - 65/15/2006

Attorney Docket No. 52637-0063

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Efstratios Skafidas, et al.

Serial No.: 10/615,208

Filed on: July 7, 2003

) Confirmation No.: 8053

) Examiner: NYA

) Group Art Unit No.: 2618

For: MULTIPLE ACCESS WIRELESS COMMUNICATIONS ARCHITECTURE

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited on that form, if needed. Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):



37 C.F.R. §1.97(b). It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).



37 C.F.R. §1.97(c). If so, then this Information Disclosure Statement includes one of the following:



A statement pursuant to 37 C.F.R. §1.97(e)

☐ 1.97(e)(1) The undersigned hereby states that each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement.

☒ 1.97(e)(2) The undersigned hereby states that no item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

☐ A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

☐ 37 C.F.R. §1.97(d). If so, then this Information Disclosure Statement includes the following:

☐ A statement pursuant to 37 C.F.R. §1.97(e)

☐ 1.97(e)(1) The undersigned hereby states that each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this information disclosure statement; OR

☐ 1.97(e)(2) The undersigned hereby states that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this information disclosure statement.

AND

☐ A check for \$180.00 for the fee under 37 C.F.R. §1.17(i) for submission of the Information Disclosure Statement.

It is respectfully requested that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

☐ 37 C.F.R. §1.97(i). Applicants are submitting references to satisfy Applicants' disclosure obligations in hopes that the references will be considered by the Examiner. Although the submission does not fully meet 37 C.F.R. §1.97, Applicant respectfully requests that the cited documents be considered and that the enclosed Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to Applicant(s). It is understood that if the Examiner does not consider the cited references, the cited documents will be placed in the file pursuant to 37 C.F.R. §1.97(i).

Accordingly, copies of the references as listed on the attached Form PTO 1449 are submitted herewith. No certification or fees are deemed necessary.



The Examiner is hereby notified that the present application is related to the following related application(s):

**DISCLOSURE OF RELATED APPLICATIONS**

U.S. Application/ Pat. No.	File Date	Atty. Docket. No.

The related application(s) may contain subject matter that is related to the subject matter of the present application. The related application(s) may contain one or more claims that may be substantially similar to one or more claims in the present application, and those claims may have been rejected in the related application(s). Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.



The Examiner is hereby notified that for the following related application(s) an Office Action has been received as indicated below:

**DISCLOSURE OF OFFICE ACTIONS**

	U.S. Application/ Pat. No.	File Date	Office Action Mailing Date	Atty. Docket. No.
MD	10/858,936	06/01/2004	04/21/2006	52637-0064

The related application(s) may contain one or more claims that may be substantially similar to one or more claims in the present application, and those claims may have been rejected in the related application(s). Therefore, the Examiner is encouraged to review the file history(ies) of the related application(s) as some of the information contained therein may be material to the examination of the present application.

Throughout the pendency of this application, please charge any additional fees, including any required extension of time fees, and credit all overpayments to deposit account 50-1302.

Respectfully submitted,

HICKMAN PALERMO TRUONG & BECKER LLP

Dated: May 12, 2006



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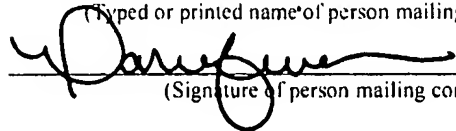
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(Typed or printed name of person mailing correspondence)



(Signature of person mailing correspondence)

<b>INFORMATION DISCLOSURE CITATION IN AN APPLICATION</b> (PTO-1449)				ATTY. DOCKET NO. 52637-0063		SERIAL NO. 10/615,208	
				APPLICANT: Efstratios Skafidas, et al.			
				FILING DATE: July 7, 2003		GROUP: 26812618	
<b>U.S. PATENT DOCUMENTS</b>							
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code <sup>2</sup> (If known)				
MD		5,666,654		Kanai	09-09-1997		
MD		2003/0087645	A1	Kim et al.	05-08-2003		

<b>FOREIGN PATENT DOCUMENTS</b>								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (If known)				

<b>OTHER ART – NO PATENT LITERATURE DOCUMENTS</b>			
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Examiner Signature	/Minh Dao/	Date Considered	07/27/2006
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